

ABSTRACT OF THE DISCLOSURE

A closed-circuit pump is provided that receives input from a steering unit in order to drive a steering cylinder. The closed-circuit pump is preferably a proportional bi-
5 directional pump. The steering unit includes a steering wheel or similar device controlled by an operator. In one embodiment, the steering unit is a conventional hydraulic system that includes a servo pump. In another embodiment, the steering unit is an electronic displacement control
10 system. The steering cylinder engages with a steering assembly to perform the steering function by physically turning the wheels of the vehicle. The inlet of the steering cylinder includes a counterbalance valve, which prevents flow into the steering cylinder when there is no
15 steering input from the operator.